Atty. Dkt. No.: 089339-0387

2004P02168

WHAT IS CLAIMED IS:

- 1. An extended rotary operating mechanism for a circuit breaker having a
 2 movable operating handle coupled to a shaft and electrical contacts, the extended
 3 rotary operating mechanism comprising:
- a handle operator defining a socket;
- a blocking plate mounted in the socket, the blocking plate including a
- 6 blocking shape; and
- a shaft adaptor coupled to the blocking plate and the shaft, wherein if
- 8 the electrical contacts are welded closed and a torque is applied to the handle
- 9 operator, the blocking shape prevents the handle operator from being locked in an
- "OFF" position, independently of the operating handle position, by covering a locking
- 11 hole.
- The extended rotary operating mechanism of claim 1, wherein the socket is configured to allow the handle operator at least 3° up to 8° of rotary motion
- 3 before the blocking plate is moved into a blocking position.
- The extended rotary operating mechanism of claim 1, wherein the
- 2 handle operator is operated manually.
- 1 4. The extended rotary operating mechanism of claim 1, including a
- 2 locking pin configured to engage the locking hole to lock the handle operator in the
- 3 "OFF" position.
- The extended rotary operating mechanism of claim 1, wherein the
- blocking plate and shaft adaptor rotate together as the handle operator is moved.
- 6. The extended rotary operating mechanism of claim 1, wherein the shaft
- 2 adaptor is coupled to the shaft with fasteners.
- The extended rotary operating mechanism of claim 1, wherein the
- 2 blocking plate and shaft adaptor are composed of metal.

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1 8. The extended rotary operating mechanism of claim 1, wherein the shaft 2 adapter includes one of an extended socket and a recessed socket configured to 3 engage to the shaft.

9. A method for preventing an operating handle of a circuit breaker from being locked in an "OFF" position when electrical contacts of the circuit breaker are welded closed, with the circuit breaker having a shaft coupled to the operating handle, the method comprising the steps of:

providing a handle operator having a socket and a mounting plate defining a locking hole;

providing a blocking plate having a blocking shape and configured to fit in the socket;

providing a shaft adaptor;

coupling the shaft adaptor to the blocking plate and the shaft; and covering the locking hole with the blocking shape when a torque is

- 10. The method for preventing an operating handle of a circuit breaker from being locked of claim 9, including the step of rotating the handle operator up to 6° before the blocking plate is moved to block the locking hole.
- 1 11. The method for preventing an operating handle of a circuit breaker from being locked of claim 9, including the step of operating the handle operator manually.
 - 12. The method for preventing an operating handle of a circuit breaker from being locked of claim 9, wherein the shaft adapter includes one of an extended socket and a recessed socket configured to engage the shaft.
 - 13. The method for preventing an operating handle of a circuit breaker from being locked of claim 12, including the steps of providing fasteners to secure the shaft adaptor to the shaft and securing the shaft to the shaft adaptor.

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applied to the handle operator.

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1	14. An extended rotary operating mechanism for a circuit breaker having a
2	movable operating handle coupled to a shaft, and electrical contacts, the operating
3	rotary operating mechanism comprising:
4	a means for rotating defining a socket;
5	a means for blocking mounted in the socket; and
6	a means for coupling operatively connected to the means for blocking
7	and the shaft, wherein if the electrical contacts are welded closed and a torque is
8	applied to the means for rotating, the means for blocking prevents the means for
9	rotating from being locked in an "OFF" position, independently of the operating
10	handle position, by covering a locking hole.

- 15. The extended rotary operating mechanism of claim 14, wherein the socket is configured to allow the means for rotating at least 3° up to 8° of rotary motion before the means for blocking is moved into a blocking position.
- 16. The extended rotary operating mechanism of claim 14, wherein the means for rotating is operated manually.
- 1 17. The extended rotary operating mechanism of claim 14, including a locking pin configured to engage the locking hole to lock the means for rotating in the "OFF" position.
 - 18. The extended rotary operating mechanism of claim 14, wherein the means for blocking and means for coupling rotate together as the means for rotating is moved.
- 1 19. The extended rotary operating mechanism of claim 14, wherein the means for coupling is operatively connected to the shaft with fasteners.
- 1 20. The extended rotary operating mechanism of claim 14, wherein the 2 means for blocking and means for coupling are composed of metal.

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